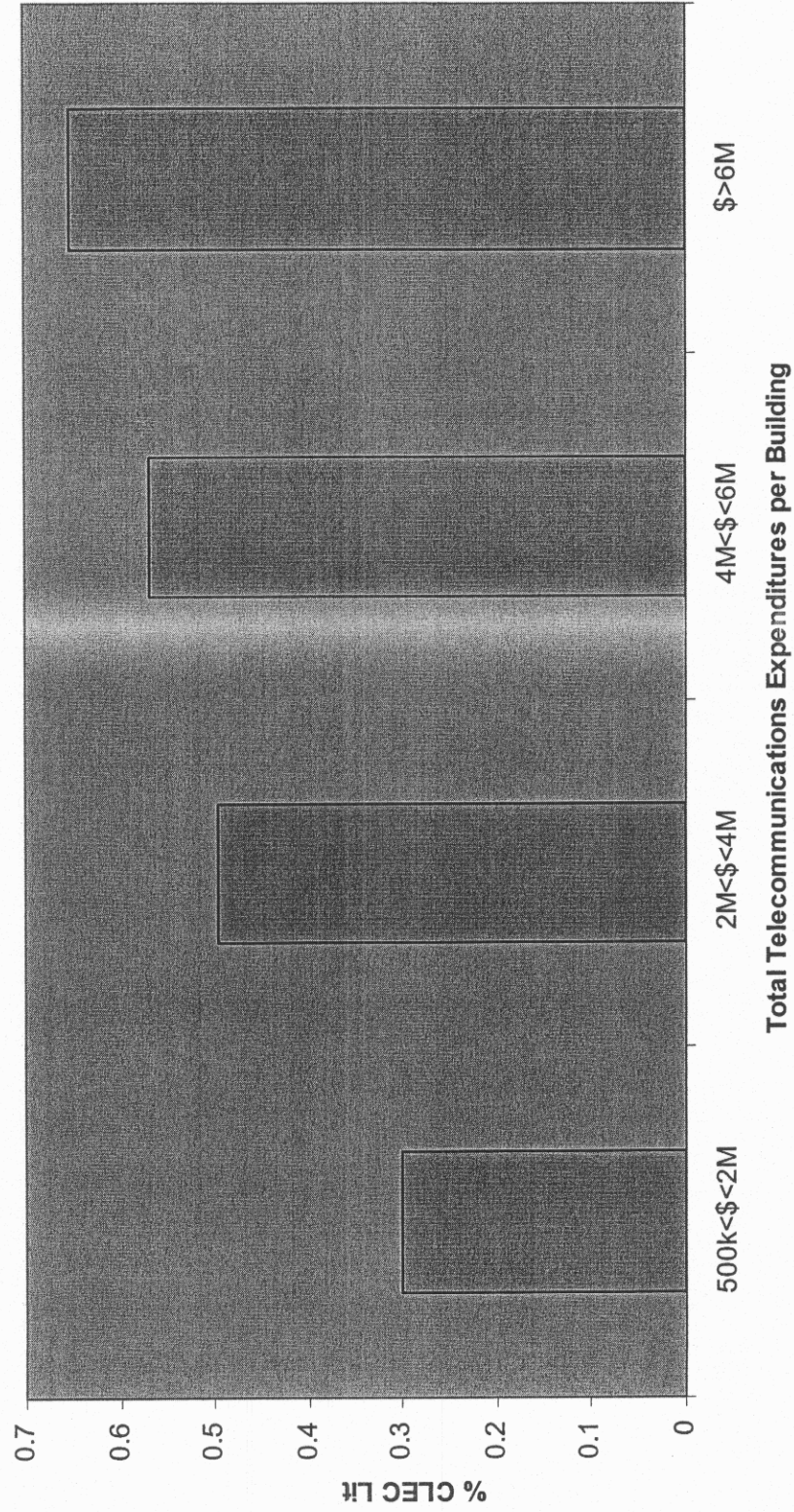


ATTACHMENT 9

CLEC Fiber Networks				
	Markets		Route Miles of Fiber	On-Net Buildings
	Cities	States		
AT&T	84	35	20,600*	6,400
Buckeye	n/a	2	250	900
C. Lightpath	n/a	3	7,000	1,620
Cavalier	16	5, DC	2,000	n/a
Choice One	37	12	1,429*	n/a
Cinergy	n/a		1,000	n/a
Comcast Bus.	n/a		1,600	265**
Cox Communications	20		9,500	6,600
Grande Comms.	6	1	3,100	n/a
ICG Communications	24	5	2,166*	913
IDT Solutions	2	1, DC	10,000**	3,500**
Integra Telecom		5	85	n/a
ITC^DeltaCom	22	7	14,488	n/a
KMC Telecom	35		2,400	15,600
Level 3	27		4,000*	550
MCI	60	35, DC	9,000*	n/a
McLeodUSA	108	25	5,000**	1,500**
NewSouth		9	n/a	n/a
NTS Communications	7	1	7,000	50
Qwest	27	14, DC	1,800	250**
SIGECOM	2	1	880	n/a
TelCove	35		19,186	3,500
Time Warner Telecom	44		11,345*	3,854
XO	50		23,700	2,374
Xspedius	52	24, DC	3,500*	n/a
Yipes	10		21,000	474
Totals			182,029	48,350
<p><i>Notes:</i></p> <p>Totals use data self-reported by CLECs, where possible. Where such data are not available, source is New Paradigm Resources Group's 2004 CLEC Report.</p> <p>* Indicates local route miles only. Other route mile totals potentially include long-haul miles in addition to local.</p> <p>** Indicates that current year data (2003-04) was unavailable and that data from most recent prior period was used.</p> <p>Sources: See Source Appendix.</p>				

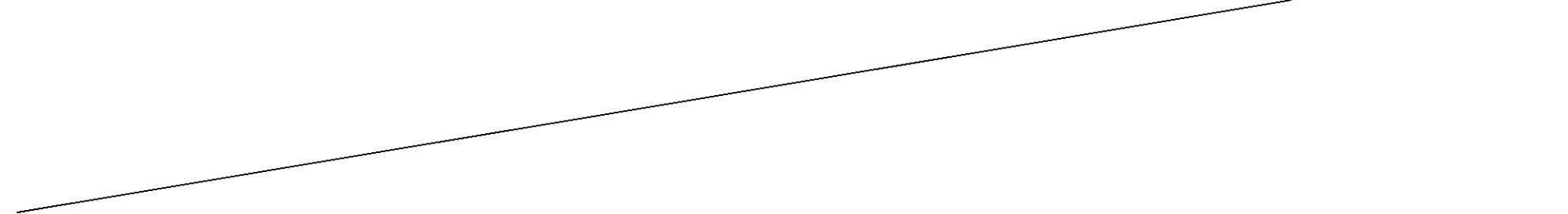
ATTACHMENT 10

As Telecommunications Expenditure Increases in a Building, Competitive Fiber Deployment to the Building Increases.



ATTACHMENT 11

Use of Fixed Wireless to Extend Fiber Networks	
AT&T	<p>"AT&T Managed Internet Service gives Maritz a reliable, redundant Internet connection with a 10-mbps fixed pipe and AT&T-managed router. Last mile connectivity is provided by an innovative 18-gigahertz wireless radio link as part of the company's local loop." (AT&T Case Study, 12/01)</p> <p>"[W]e're looking at all types of technologies that will allow us to bypass the ILECs all together. We're checking out power line, 802.11, fixed wireless and free space optics technologies." (Hossein Eslambolchi, CTO & CIO, 12/03)</p>
Cox	<p>"A growing number of [cable] operators are looking at wireless technology as a cost-effective means of reaching a significant share of the commercial market previously thought to be unreachable. 'We're watching wireless development very closely. We're very open to using services to complement what we do and are trialing it now.'" (Bill Stemper, VP, Cox Business Services, 11/03)</p>
Covad	<p>Covad is "looking for ways to extend the copper plant economically and WiMAX is very much a possibility." (Ron Marquardt, Technical Director, 3/04)</p>
XO	<p>"[Fixed wireless] trials could be a very meaningful breakthrough for XO, in that XO can reduce 'last mile' costs, XO can become even more price competitive than it is today for business customers." (Carl Grivner, CEO, 1/04)</p>
OnFiber	<p>OnFiber, a wholesale metro fiber provider, is working with fSONA Communications and Terabeam, providers of wireless solutions using FSO technology, to "extend the network" where "cost or geography prohibit the use of fiber infrastructure." (Michael Guess, COO, 10/03)</p>
Terabeam	<p>"We're in trials with just about every major tier-one carrier in this country and with many tier-one carriers outside the U.S." (Dan Hesse, CEO, 4/03)</p>
WilTel	<p>"The combination of fixed wireless connectivity to Extended On-Net and WilTel's managed services creates tremendous opportunities for customers in Tier 2 and 3 markets, because now they can have direct, on-net access to WilTel's robust services in the manner that is most effective for them – be it fiber builds or direct wireless connections." (Tony Tomae, SVP, Marketing, 5/04)</p>
Sources: See Source Appendix.	



ATTACHMENT 12

Fixed Wireless Providers Offering Wholesale Services	
airBand	"airBand offers a dedicated [wireless] private line . . . as a last mile solution for carriers that want to avoid the high costs associated with laying copper or fiber."
Conterra	"Conterra is deploying a hybrid of fixed wireless technologies, both in licensed and unlicensed spectrum, to meet the needs of small to large enterprises including, governments, schools and other carriers ."
First Avenue Networks	Leases licensed spectrum in 39GHz band to " large and small telecom providers " using "licenses that cover 99% of the U.S.," including "over 350 MHz of spectrum in the top 50 markets." Leases spectrum to carriers on a "per-link basis" at varying capacities "that can accommodate speeds from T-1 . . . up to OC-12 " for as little as "\$500 per link, per year"
IDT Solutions	IDT Solutions "will rent blocks of the company's wireless spectrum to other carriers ."
NextWeb	NextWeb is "counting on its turnkey offer to entice landline carriers to add broadband wireless."
Teligent	"Teligent will provide transport services to other carriers." "Teligent provides a dedicated Local Private Line service with access capabilities from T1 to OC3 (up to 155 Mbps). Teligent's Local Private Line is a licensed digital point-to-point service designed for carriers . . . who require scalable bandwidth and secure direct connectivity to additional locations."
XO	"XO is rolling out its fixed wireless services directly and through other carriers that would resell it to end users. A handful of smaller carriers have resold it, says [Mark] Salter [the company's vice president of broadband wireless]"
<i>Sources: See Source Appendix.</i>	

ATTACHMENT 13

Cable Serving Business Customers

	Fiber	Cable Modem
Cablevision	"Lightpath owns, installs and operates its own advanced fiber-optic network facility, comprising over 10,000 route miles of fiber-optic cable that connects . . . to more than 1500" buildings	Business Class Optimum Online for small businesses offers connection speeds up to 10 Mbps downstream and 1 Mbps upstream. "[T]he business sector opportunity has 'actually helped us build the network into the business areas and business parks.'"
Time Warner	"We've got an infrastructure there that is just ripe for commercial services We pass 1.2 million businesses" "[D]elivering cost effective, high capacity access solutions to several Fortune 500 customers." Provides service to 139,000 customers as of the end of 1Q04.	According to the company, "[c]able is not incredibly difficult to get to the business," and "[m]ost RBOCs, CLECs and ILECs have ignored that space." Time Warner "views the SMB market as a high-growth opportunity."
Charter	Moving "'up-market' to compete in Enterprise RFP environment"; 9 percent of business subscribers are medium or large businesses.	Small Business Internet Service is "designed specifically for small, growing businesses." "[O]ver 600,000 small- and medium-sized businesses located within reach of our networks"
Comcast	"Seamlessly link your facilities with a secure metropolitan area network. Exchange data at speeds up to gigabits per second and command your traffic while Comcast Commercial Services manages the connectivity."	Targets "SMBs with 1-100 employees," "Non-profit orgs, schools, government," and "SMBs and Enterprises with telecommuters."
Cox	Provides data, voice, and transport services to more than 100,000 customers More than 320,000 businesses lie within 100 feet of Cox's network, providing Cox a "significant opportunity."	"[S]erves 19 of the Cox cable markets, covering more than 90 percent of Cox's overall footprint nationally, marketing basic data and video services aggressively to small- and medium-sized businesses the company can easily serve with current network connections." Cox "has really embraced commercial" services.
RCN	"[S]igned several agreements to expand its business" to provide "voice, video, data, business cable, Internet access, transport," to "customers including universities, hospitals, and the financial and legal industries."	
<i>Sources: See Source Appendix.</i>		

ATTACHMENT 14

Business Types Served by
Sample CLECs Using Verizon Special Access

Category and Number of Circuits	Total
Accountants	104
Advertising & Marketing	952
Aerospace Manufacturer	6
Aerospace Research & Development	58
Aerospace Technology	9
Agricultural Products	8
Air Cargo & Package Express Services	7
Air Conditioning Contractors	10
Aircraft Flight Training Equipment	11
Aircraft Manufacturers	56
Aircraft Parts & Equipment	11
Airports	159
Alarm Systems & Security Services	404
Alcohol & Drug Abuse Rehabilitation Services	18
Ambulance Services	6
Antique Dealers	2
Antique Reproductions Retailers	7
Apartment Complexes	3
Appliance Service & Repair	1
Appraisal Service	4
Arcades & Amusements	32
Architectural Services	32
Armed Forces	782
Armed Forces - Air Force	2
Armed Forces - Air Force Base	263
Armed Forces - Army	194
Armed Forces - Coast Guard	3
Armed Forces - National Guard	4
Armed Forces - Navy	26
Art Collection	3
Art Supplies Retailers	4
Arts & Entertainment	130
Arts & Entertainment - Cinemas & Theatres	59
Arts & Entertainment - Music	40
Associations and Interest Groups	725
Auctioneers	23
Audiovisual Equipment Manufacturers	9
Audiovisual/Computer Rental & Leasing	6
Autioneers	3
Auto Clubs	2
Auto Dealers	1796
Auto Manufacturers	131
Auto Rentals	844
Automated Teller Machines	2
Automation Consultants	2
Automation Equipment & Systems Dealers	15
Automotive - Auction	5
Automotive - Parts, Supplies, Service	1019

Category and Number of Circuits	Total
Automotive - Truck Sales, Service	43
Aviation	66
Aviation Services	113
Bail Bonds	3
Bank Equipment & Supplies	12
Bar Code Scanning Equipment & Supplies	2
Barrels & Drums	7
Bearings Wholesale & Manufacturers	3
Beauty Salon Equipment & Supplies Retail	5
Beverages Wholesale & Manufacturers	4
Biomedical Research	1
Biotechnology	117
Boat Manufacturers	4
Book & Music Stores	180
Books & Music Retailers	392
Builders & Contractors	233
Builders & Contractors - Commercial & Industrial	171
Builders & Contractors - Home Construction	65
Building Inspection & Pest Control Services	56
Building Materials & Supplies Dealers	113
Building Materials & Supplies Dealers - Fiberglass	8
Building Remodeling & Repair Contractors	9
Business & Professional Services	1230
Business Consultants & Advisors	2
Business Services - Distribution	245
Cable Manufacturers	3
Call Centers & Answering Services	51
Cameras & Camera Supplies	13
Camping & Backpacking Equipment & Supplies Dealers	1
Canners & Food Processors	10
Cargo Container Manufacturers	12
Catalog Shopping	6
Catering	4
CDs Tapes & Records Retail	2
Cell Phone Equipment & Supplies	51
Cement & Sand & Gravel Manufacturers	22
Certified & Registered Massage Therapists	2
Charitable & Nonprofit Organizations	1
Chauffeured Services	18
Chemical Manufacturers	362
Chemicals Manufacturers	133
Child Care	29
Chimney Cleaning Services	3
Churches & Religious Organizations	329
Civil Engineering Firm	8

Business Types Served by
Sample CLECs Using Verizon Special Access

Category and Number of Circuits	Total
Civil Engineers	24
Cleaning Services	9
Clinical Services - Social & Human Services	12
Clothing & Accessories (Designer) Retailers	28
Clothing & Accessories Manufacturers	182
Clothing & Accessories Retailers	736
Cocoa Processors	1
Cold Storage Warehouses	4
Collection Services	8
Commmunications - Video Conferencing	21
Commodity & Merchandise Warehouses	31
Common & Face Brick Dealers	2
Communications	1469
Communications - Broadcasting	201
Communications - Cable	280
Communications - Cable & Satellite	96
Communications - Cellular	105
Communications - Internet Hosting	34
Communications - ISP	18
Communications - Major Media	53
Communications - Radio	70
Communications - Satellite & Cable	3
Communications - Telecom	5538
Communications - Television	163
Communications - Verizon	1815
Communications - Wireless	2307
Communications & Public Relations	9
Communications & Public Relations Consultants	11
Communications Equipment & Supplies	3
Computer & Equipment Dealers	18
Computer Networking Installation	4
Computer Peripherals - Printers, Laser Printers	9
Computer Supplies Parts & Accessories	13
Computer Systems Consultants & Designers	272
Computer Testing Services	13
Computers	891
Computers - Equipment & Supplies	70
Computers - Equipment Repair & Maintenance	156
Computers & Equipment Repair	9
Computing Solutions	4
Concrete & Concrete Products Dealers	16
Concrete Contractors	4
Conference Call Services	14
Conference Facilities & Convention Centers	11
Construction & Contractors - Doors & Windows	6
Construction & Contractors - Floors & Flooring	33
Construction & Contractors - General	46

Category and Number of Circuits	Total
Contractors	
Construction & Contractors - Roofing	3
Construction Engineers	5
Construction Equipment & Supplies	15
Construction Equipment & Vehicle Rental	3
Construction Management Services	114
Consulting Services - General	1195
Consumer Goods Manufacturers	776
Consumer Goods Retailers	136
Consumer Groups	5
Contractors' Equipment & Supplies Dealers	20
Convenience Stores	83
Conveyor Belting & Belting Supplies Dealers	3
Copying, Printing & Graphics Services	610
Corporate Housing	6
Corrugated & Fiber Boxes Retail	51
Cosmetics	116
Cosmetics Retailers	31
Courier Services	12
Crafts Stores	23
Credit & Debt Counseling Services	25
Credit Collection & Reporting Agency	109
Cryogenics Equipment & Supplies	2
Currency Exchange Services	5
Customs Brokers & Consultants	31
Data Communications Equipment & Systems	13
Dating & Introduction Services	1
Defense Contractors	591
Department Store	47
Department Stores	1800
Design and Engineering	48
Discount Variety Stores	90
Document Management Services	138
Dog & Horse Racing	16
Door & Window Dealers	8
Drug Stores & Pharmacies	887
Dry Cleaners	22
Education - Admin, Boards, Associations	123
Education - Colleges & Universities	1958
Education - Commercial Services	178
Education - K-12 Schools	686
Education - Professional Training/Devel	325
Electric Contractors	34
Electric Equipment & Supplies Dealers	71
Electric Motor Dealers	30
Electrolysis Treatments, Lasers	2
Electronic Equipment	5
Electronic Equipment & Supplies Retail	20

Business Types Served by
Sample CLECs Using Verizon Special Access

Category and Number of Circuits	Total
Electronic Instruments Retail	112
Electronic Research Design & Development	2
Electronic Testing Equipment Dealers	27
Electronics & Appliance Manufacturers	43
Electronics & Appliance Parts & Supplies	41
Electronics & Appliances Manufacturers	203
Electronics and Appliance Retailers	773
Electronics Manufacturers	906
Electronics Wholesale Distributor	35
Elevator Equipment & Services	63
Employment Agencies	803
Employment Agencies - Temp Staffing	113
Engineers	5
Entertainment	154
Entertainment - Movie Studio	28
Envelopes Manufacturers & Wholesalers	6
Environmental & Ecological Consultants	66
Environmental Association	22
Environmental Engineers	26
Environmental Services	26
Equipment Manufacturers	2
Executive Suites	68
Fabrics Stores	14
Family & General Practice Physicians & Surgeons	11
Fast Food Stores	15
Fasteners Wholesale & Manufacturers	8
Feed Fertilizer & Power Equipment	1
Fiber Optic Equipment Systems & Supplies	6
Fiberglass & Materials	5
Financial - Advisor Services	34
Financial - Advisory Services	930
Financial - Banks	12125
Financial - Credit Card Companies	307
Financial - Credit Unions	462
Financial - Electronic Payment Svcs	145
Financial - General Services	5485
Financial - Investment Services	5906
Financial - Loan Service	73
Financial - Loan Services	307
Financial - Mortgage Companies	1846
Financial - Mutual Services	109
Financial - Research Services	10
Finger Printing Services & Equipment	11
Fire Alarms, Extinguishers & Sprinklers	28
Fire Departments	8
Fire Fighters Associations	3
Fireproofing & Firestopping Materials &	2

Category and Number of Circuits	Total
Supplies	
Fish & Wildlife	3
Flavoring Extracts	14
Florists	46
Flour Mill	1
Food & Beverage Producers and Distributors	1515
Food & Beverage Providers and Distributors	44
Food & Beverage Retailers	75
Food Preservation Equipment & Supplies	12
Food Processing Equipment & Supplies	11
Footwear Stores	20
Forklift & Industrial Truck Dealers	4
Fragrance & Cosmetics Stores	3
Funeral/Memorial Services	49
Furniture	47
Furniture Stores	195
Garage Doors & Openers	9
Gas Stations	14
General Merchandise Wholesale	36
Genetic Research	1
Genetics Research	16
Geographic Information Services	13
Gift/Houseware Retailers	213
Glass Wholesale & Manufacturers	22
Global Marketing, Communications, & Entertainment	12
Global Positioning System	5
Government	24
Government - Accounting	5
Government - Civil Defense - Power Authority	35
Government - Correctional Facility	90
Government - Courthouse	56
Government - Courts	115
Government - Customs	3
Government - Embassy/Consulate	89
Government - FBI	121
Government - Federal	3585
Government - Federal - Aviation	103
Government - Federal - Communications	48
Government - Federal - Courts	13
Government - Federal - Defense	564
Government - Federal - Defense - Imagery & Mapping	1
Government - Federal - Food & Drug Admin	3
Government - Federal - Geological Surveys	8
Government - Federal - Health & Human Services	127
Government - Federal - House of	28

Business Types Served by
Sample CLECs Using Verizon Special Access

Category and Number of Circuits	Total
Representatives	
Government - Federal - Housing & Urban Development	3
Government - Federal - Info Systems	35
Government - Federal - Labor Relations	3
Government - Federal - Postal Services	13
Government - Federal - Senate	16
Government - Federal - Treasury	36
Government - Foreign	13
Government - Foreign - Consulate	2
Government - Foreign - Embassy	13
Government - General Services Administration	93
Government - Immigration & Customs	9
Government - Local	464
Government - Local - Law Enforcement	42
Government - Local - Taxes & Finance	16
Government - Local - Transportation	138
Government - National Parks & Conservation Land	7
Government - Naval Shipyard	6
Government - Police/Sherriff	23
Government - Printing	16
Government - State	706
Government - State - Lottery	31
Government - State - Sentate	48
Government - State - State Senate	66
Government - Telecommunications	12
Government - Training	3
Government - US Congress Representatives	1
Government - Weather Service	17
Government Contractors - Computer Networks	3
Government Contractors - Computer Systems	4
Government Insurance Carriers	1
Greenhouses and Nurseries	6
Grocery Stores & Supermarkets	2964
Gypsum & Gypsum Products	31
Hair Dressers	5
Hair Restoration	2
Hardware Stores	31
Health & Beauty Products Manufacturers	53
Health & Diet Foods Stores	44
Health & Human Services - Leukemia	3
Health Agencies	2
Health Clubs & Gyms	11
Health Maintenance Organizations	57
Healthcare	1355
Healthcare - Clinics & Medical Centers	457
Healthcare - Dental	133

Category and Number of Circuits	Total
Healthcare - General	3466
Healthcare - Home (Nursing, Convalescent, Rehab)	40
Healthcare - Homes (Nursing, Convalescent, Rehab)	473
Healthcare - Hospitals	1500
Healthcare - Physicians & Surgeons	6
Healthcare - Radiology	56
Healthcare - Research, Labs	356
Healthcare - Vision	85
Heating & Refrigeration Equipment	
Manufacturers	109
Heating & Ventilating Contractors	24
Heavy Equipment Manufacturers	18
Home Décor Retailers	161
Home Improvement Retailers	209
Home Improvement Services	1
Home Improvement Stores	537
Home Improvement, Repair, Lawns Services	114
Home Products - Siding	19
Hospice	12
Hospital Consultants & Management	1
Hospital Equipment & Supplies Retail	87
Hospitality	33
Hospitality Services	17
Hotel & Motel Equipment & Supplies	4
Hotel Reservations Service Provider	7
Hotel Services	2
Hotels & Lodging	3857
Household Linens & Furnishing Retailers	119
Housing Authority	3
Human Resource Business Services	180
Imaging Equipment Manufacturers	17
Incinerators Parts & Services	6
Industrial Equipment & Supplies	33
Industrial Equipment & Supplies Dealers	60
Industrial Equipment Rental & Leasing	3
Industrial Parks Management	55
Industry - Aerospace	81
Industry - Metals	47
Industry - Mining/Natural Resources	6
Industry - Paper	255
Industry - Power, Fuel, Water, Energy	1736
Industry - Trade Association	146
Information Services	454
Information Technology & Automation	4
Ink Manufacturers' Materials	8
Instruments & Equipment Manufacturers	111

Business Types Served by
Sample CLECs Using Verizon Special Access

Category and Number of Circuits	Total
Insurance	7444
Insurance - Claims Processing Service & Adjusters	2
Insurance - Health Care Services	139
Insurance - Life Insurance	17
Insurance - Title Insurance	98
Insurance - Workers' Compensation Services	16
Interest Groups and Associations	12
Interior Design	4
Internet Services	1037
Investigation Services	16
IT Consulting & Business Services	1919
Jewelry Importers	3
Jewelry Stores	104
Journalism/News Service	145
Journalism/News Services	27
Kitchen & Bath Distributor	27
Labor Relations	1
Labor Unions	21
Laboratories	501
Laboratory Equipment & Supplies	1
Landscape Designers & Consultants	28
Landscape Equipment & Supplies Dealers	74
Landscaping	5
Laundry Service	7
Law Firms & Legal Services	1047
Lawn & Garden Equipment & Supplies	6
Leather Goods Manufacturers	3
Leather Goods Retailers	63
Libraries	126
Lighting Fixtures Manufacturers	8
Lighting Fixtures Retailers	47
Linen Supply Services & Uniforms Retail	26
Lithographers	68
Lumber	41
Mail Order & Catalog Sales	4
Malls & Shopping Centers	91
Management Consulting	478
Manufacturers - General	1394
Manufacturers' Agents & Representatives	28
Materials & Packaging Manufacturers	341
Mechanical Contracting	13
Mechanical Contractors & Engineers	1
Mechanical Equipment & Supplies	4
Media & Communications - Sales Presentations	3
Medical	4
Medical - Blood Bank	5
Medical & Dental X-Ray Laboratories	3

Category and Number of Circuits	Total
Medical Advisors/Consultants	4
Medical Analysis	3
Medical Answering Services	4
Medical Association	1
Medical Billing & Collections Services	13
Medical Centers - Blood Center	6
Medical Consulting	31
Medical Device Manufacturers	19
Medical Equipment	2
Medical Exam Board	1
Medical Information Technology	16
Medical Laboratory	8
Medical Laboratory - Radiology	1
Medical Products and Services	356
Medical Research	39
Medical Services	81
Medical Specialties	46
Medical Specialties - Behavioral Health	18
Medical Specialties - Cancer Foundation	1
Medical Specialties - Cancer Treatment Centers	2
Medical Specialties - Cardiovascular	2
Medical Specialties - Cardiovascular Health	16
Medical Specialties - Cerebral Palsy	15
Medical Specialties - Counseling	1
Medical Specialties - Endoscopy	1
Medical Specialties - Eye Surgery Center	1
Medical Specialties - Home Care	6
Medical Specialties - MRI	25
Medical Specialties - Muscular Dystrophy	12
Medical Specialties - OB-GYN	6
Medical Specialties - Optometry	2
Medical Specialties - Orthopedics	38
Medical Specialties - Radiology	14
Medical Specialties - Ultrasounds	28
Medical Staffing Services	1
Medical Supplies	5
Medical Transcription	4
Merchandising	5
Merchandising Services & Systems	9
Metal Products	53
Metal Stamping Equipment & Supplies	8
Microfilming & Imaging Service	
Equipment/Supplies	8
Miscellaneous	53403
Mobile Offices & Commercial Units	5
Modeling Agency	1
Modular & Mobile Home & Buildings Dealers	3
Money Orders & Transfer Services	5

Business Types Served by
Sample CLECs Using Verizon Special Access

Category and Number of Circuits	Total
Mortgages	205
Motion Picture Distributors	20
Moving & Storage	103
Museums	72
Music Publishing/Supply	27
Musical Instrument - Rental and Sales	34
Newspaper Publishers	381
Non-Profit Organizations	334
NULL NAME	61222
Office Furniture & Equipment Dealers	44
Office Machinery & Supplies	2
Office Management Services	71
Office Space and Support Services	94
Office Supplies Stores	730
Office Supplies Wholesale & Manufacturers	10
Office Supply Stores	27
Online Services	66
Organ Donation & Tissue Banks	6
Outdoor Advertising & Billboards	2
Outsourcing - Business Management	117
Packaging	7
Packaging & Shipping Services	710
Paint & Paint Products	2
Paint Manufacturers	20
Painting & Paint Supplies	7
Paper Products	1
Parking	11
Parking & Traffic Consultants	4
Parks & Recreation	25
Party Supplies Stores	29
Payroll & Payment Services	233
Payroll Services	10
Perfumes & Colognes Raw Materials & Supplies	4
Pest Control Services	63
Pharmaceuticals	1651
Phone Equipment & Systems Dealers	1
Photographic Equipment & Supplies	28
Photographic Equipment & Supplies Retail	4
Photography Stores	5
Photography Studios & Picture Libraries	3
Physical Therapy	1
Physical Therapy Equipment and Supplies	7
Pipe Fabrication	1
Plastic Products	92
Plastic Raw Materials	1
Plumbing & Heating Supplies	128
Plumbing Services	3

Category and Number of Circuits	Total
Plumbing Supplies	28
Pneumatic Equipment & Suppliers Dealers	10
Pneumatic Tools & Equipment	6
Polyethylene Materials & Products	23
Postal Services	2
Product Packaging Labeling & Shipping	34
Production Studio	17
Property Management	4
Public Housing	1
Publishers	779
Radio Phone Equipment & Systems	24
Real Estate - Agencies	1235
Real Estate - Commercial & Industrial	159
Real Estate - Commerical & Industrial	21
Real Estate - Corporate Housing	17
Real Estate - Developers & Subdividers	89
Recreational Vehicles	6
Recruiting Services	1
Recycling/Conservation Services	24
Rentals - Furniture	5
Rentals - General	99
Rentals and Sales - Heavy Equipment	48
Research	358
Resorts	7
Restaurant Management & Consultants	2
Restaurant Services	2
Restaurants	371
Retail - Pet Supplies	1
Retailers - General	3
Retirement Communities & Homes	49
Road & Highway Construction Machinery & Equipment	8
Robotics	2
Sales Training	2
Salons & Spas	7
Salvage Services	7
Sand & Gravel Dealers & Recycling Centers	18
Saw Sales Sharpening & Repair	3
Science	46
Science - Forensics	2
Science - Health	8
Science - Research	35
Science & Technology	3
Science and Engineering	279
Scientific Instruments & Supplies Dealers	87
Scooters & Powered Chairs	7
Semiconductors	27
Sewing Machines	1

Business Types Served by
Sample CLECs Using Verizon Special Access

Category and Number of Circuits	Total
Shipbuilding	13
Sign Dealers, Display Designers & Producers	8
Social & Human Services Organization	108
Social & Human Services Organizations	11
Social Clubs	2
Social Groups	25
Soda Fountain Equipment & Supplies	10
Software & CD ROM Sales & Services	6
Sound Equipment & Systems Sales Rental & Leasing	3
Space & Navigation	5
Space Communications	5
Space Exploration & Defense	7
Specialty Stores	162
Spices Wholesale & Manufacturers	1
Sporting Goods Retailers	189
Sports	3
Sports - Athletic/Fitness Clubs	229
Sports - Auto Clubs	20
Sports - Baseball	5
Sports - Basketball	32
Sports - Beach Club	1
Sports - Boxing	3
Sports - Clubs/Facilities	24
Sports - Equestrian	1
Sports - Football	15
Sports - Golf/Country Clubs	43
Sports - Hockey	3
Sports - Soccer	3
Sports - Yacht Clubs	4
Sports & Recreation	15
Sports & Recreation - Off-Track Betting	13
Sports & Recreation - Paint Ball	2
Sports & Recreation - Youth & Family Centers	15
Steam Boiler	5
Steamship Companies	4
Steel Manufacturers	77
Stock Exchanges	89
Swimming Pools Manufacturers & Installation	2
Systems & Integration Engineers	1
Tax Return Preparation	147
Taxi Cab Services	2
Technology - Computer Networks	28
Technology - Data	265
Technology - Engineering	187
Technology - General	856

Category and Number of Circuits	Total
Technology - Network	993
Technology - R&D	142
Technology - Software	1112
Technology & Engineering	1142
Technology Research and Development	840
Telecommunications Management	1
Telecommunications Wiring & Cabling	13
Telemarketing	12
Terminal & Container Services	5
Testing Equipment & Supplies Wholesale & Manufacturers	4
Textile & Fabric Manufacturers	97
Title Company	38
Title Insurance/Escrow Services	80
Tobacco & Tobacco Products	19
Tools	5
Tools Wholesale & Manufacturers	2
Tourist Attractions	9
Toy Manufacturers	40
Toy Stores	230
Traffic & Transportation Engineers	9
Translators & Interpreters	2
Transportation	261
Transportation - Airlines	546
Transportation - Bus	33
Transportation - Rail	248
Transportation - Shipping	79
Transportation - Trucking/Freight	766
Travel Agencies & Tourism	835
Vehicle Licensing Service	2
Veterans	3
Veterinary Services	43
Video Production Services	2
Wallpaper Wholesale & Manufacturers	12
Warehouses	30
Waste Management	156
Water Filtration & Purification Equipment	
Retail	18
Waterworks Equipment & Supplies	3
Wire & Wire Products	2
Wireless Phone Stores	71
Wood Products	21
Wrecking & Demolition Contractors	8
Youth Organizations Centers & Clubs	6
Grand Total	248670

SOURCE APPENDIX

Attachment 6. CLEC Voice Networks by Size of MSA

New Paradigm Resources Group, Inc., *CLEC Report 2004*, Ch. 5 (18th ed. 2004); United States Census Bureau, *Metropolitan and Micropolitan Statistical Areas and Components, December 2003, With Codes* (Feb. 25, 2004), <http://www.census.gov/population/estimates/metro-city/0312mfips.txt>; United States Census Bureau, *Metropolitan and Micropolitan Statistical Areas and Components, 2003, With Codes* (June 6, 2003), <http://www.census.gov/population/estimates/metro-city/03mfips.txt>.

Attachment 7. Competitive Fiber Connects to All Major Traffic Aggregation Points

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Attachment 8. CLEC Networks by MSA

New Paradigm Resources Group, Inc., *CLEC Report 2004*, Ch. 5 (18th ed. 2004); United States Census Bureau, *Metropolitan and Micropolitan Statistical Areas and Components, December 2003, With Codes* (Feb. 25, 2004), <http://www.census.gov/population/estimates/metro-city/0312mfips.txt>; United States Census Bureau, *Metropolitan and Micropolitan Statistical Areas and Components, 2003, With Codes* (June 6, 2003), <http://www.census.gov/population/estimates/metro-city/03mfips.txt>.

Attachment 9. CLEC Fiber Networks

AT&T Corp. Markets/Cities Served: AT&T, *AT&T Local Private Line Service Brochure*, <http://www.business.att.com/content/productbrochures/lpls.pdf>; Route miles: David Dorman, Chairman and CEO, AT&T, Testimony before the Senate Commerce, Science, and Transportation Committee, Washington, DC (Apr. 27, 2004); Buildings served: D. Pappalardo, *AT&T's Eslambolchi Talks IP*, Network World Fusion (Dec. 1, 2003), <http://www.nwfusion.com/news/2003/1201eslambolchi2.html>. **Buckeye Telesystem.** Markets/Cities Served: Buckeye Telesystem, *Expert*, <http://www.buckeyetelesystem.com/expert.asp>; Route miles: Buckeye Telesystem, *Network Facts*, <http://www.buckeyetelesystem.com/network/facts.html>; Buildings served: C. Kuhl, *Getting Down to Business*, CED (Nov. 2003), <http://www.cedmagazine.com/ced/2003/1103/11a.htm>. **Cablevision Lightpath.** Markets/Cities Served: Lightpath, *Inside Lightpath*, <http://www.lightpath.net/inside/index.html>; Route miles: Kevin Curran, vice president, Product Management and Marketing, presentation, *Metro Networks: Rising to the Data Challenge*, <http://www.lightpath.net/technology/presentations/index.html>; Buildings served: *Q3 2003 Cablevision Systems Corp. Earnings Conference Call – Final*, Fair Disclosure Wire, Transcript 111103ap.789 (Nov. 11, 2003). **Cavalier Telephone.** Markets/Cities Served: Cavalier Telephone, *Business Services*, <http://www.cavtel.com/business/>; Route miles: *CLEC Report 2004*, Ch. 4 at Table 16. **Choice One.** Markets/Cities Served: Choice One, *Choice One Wholesale: The Choice One Network*, http://www.choiceonecom.com/products/wholesale/wholesale_ournetwork.php; Route Miles: Choice One Communications, Inc., Form 10-K (SEC filed Mar. 30, 2004). **Cinergy Communications.** Route miles: *CLEC Report 2004*, Ch. 4 at Table 16. **Comcast Business Communications.** Route miles: *CLEC Report 2004*, Ch. 4 at Table 16; Buildings served: *CLEC Report 2004*, Ch. 6, Comcast Business Communications at 1. **Cox Communications.** Markets/Cities Served: Cox Business Services, *Carrier Service*, http://coxbusiness.com/systems/az_phoenix/carrierservices.asp; Route miles: *CLEC Report 2004*, Ch. 4 at Table 16; Buildings served: *CLEC Report 2004*, Ch. 6, Cox Communications at 1. **Grande Communications Network.** Markets/Cities Served: Grande Communications, *Network Facts*, http://www.grandecom.com/About/network_facts.pdf; Route miles: Grande Communications News Release, *Grande Communications*

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Attachment 11. Use of Fixed Wireless to Extend Fiber Networks

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Attachment 13. Cable Serving Business Customers

Cablevision. Cablevision Lightpath, *Inside Lightpath*, <http://www.lightpath.net/inside/index.html>; Cablevision Lightpath, *Business Class Optimum Online*, at <http://www.lightpath.net/solutions/internet/business/bcinfo.html>; J. Barthold, *Small Business, Big Money, No Guarantees*, Telephony Online (Aug. 12, 2002) (quoting Kevin Curran, senior vice president of marketing and sales for Cablevision Lightpath), at http://telephonyonline.com/ar/telecom_small_business_big/index.htm. **Time Warner.** A. Figler, *Turning Businesses into Customers*, CableWorld (Dec. 9, 2002) (quoting Ken Fitzpatrick, senior vice president of commercial services for Time Warner Cable); Road Runner Business Class, *High Speed Internet*, <http://www.twcbroadband.com/products/hds.php> (Jan. 13, 2004); M. Stump, *Road Runner Gears Up 'Business Class' Offer*, Multichannel News (Feb. 25, 2002) (quoting Jason Welz, vice president of commercial services for Road Runner); J. Barthold, *Small Business, Big Money, No Guarantees*, Telephony Online (Aug. 12, 2002), at http://telephonyonline.com/ar/telecom_small_business_big/index.htm. **Charter.** D. Chang, EVP, Finance & Strategy, Charter Communications, presentation before the JP Morgan High Yield Conference (Feb. 2, 2004); Charter Communications, presentation before the UBS Media Week Conference, at 19 (Dec. 11, 2003) (reporting that 91% of business customers are small businesses); Charter Business Networks, *Small Business Internet Service Brochure*, <http://www.charterbusinessnetworks.com/resources/pdfs/sbi.pdf> (accessed Jan. 2004); A. Figler, *Turning Businesses into Customers*, CableWorld (Dec. 9, 2002) (quoting Charter Communications spokesman David Andersen). **Comcast.** Comcast Commercial Services, *Comcast Network Service*, <http://www.comcastcommercial.com/index.php?option=content&task=view&id=43>; J. Livingood, Director of Comcast Commercial Internet Services, *Overview of Cable Modem Offerings for Businesses in Maryland* (Aug. 15, 2002), www.marylandtedco.org/programs/PDF/MACO_Comcast.pdf. **Cox.** Cox Communications, presentation before the UBS Media Week Conference (Dec. 2003), <http://phx.corporate-ir.net/phoenix.zhtml?c=76341&p=irol-presentations>; Jim Robbins, President and CEO, Cox Communications, presentation to the Sanford Bernstein 19th Annual Strategic Decisions Conference (June 2003), <http://phx.corporate-ir.net/phoenix.zhtml?c=76341&p=irol-presentations>; D. Hayes, *Pickers' Dilemma*, CED (Sept. 2002), at <http://www.cedmagazine.com/ced/2002/0902/09a.htm>; *A Snapshot of the Cox Business Strategy*, Interview with Coby Sillers, Vice President and General Manager for Cox Business Services, Xchange Mag. (June 1, 2003), <http://www.xchangemag.com/articles/361buzserv3.html>. **RCN.** Communications Daily, at 7 (Feb. 2, 2004).